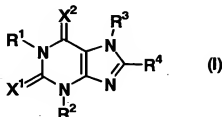


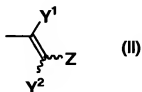
Claims

1. An antiepileptic agent comprising a xanthine derivative represented by the formula (I):



5 [wherein R¹, R² and R³ are the same or different and each represents a hydrogen atom, lower alkyl, lower alkenyl or lower alkynyl;

R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (wherein R⁵ represents substituted or unsubstituted aryl or substituted
10 or unsubstituted heterocyclic group and n represents an integer of 0 to 4) or the formula (II):



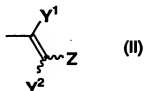
(wherein Y¹ and Y² are the same or different and each represents
a hydrogen atom, halogen or lower alkyl and Z represents
15 substituted or unsubstituted aryl or substituted or unsubstituted heterocyclic group); and

X¹ and X² are the same or different and each represents
an oxygen atom or a sulfur atom] or a pharmaceutically
acceptable salt thereof as an active ingredient.

20 2. The antiepileptic agent according to claim 1, wherein

X¹ and X² are oxygen atoms.

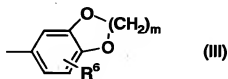
3. The antiepileptic agent according to claim 1 or 2,
wherein R⁴ is the formula (II):



5 (wherein Y¹, Y² and Z have the same meanings as defined above,
respectively).

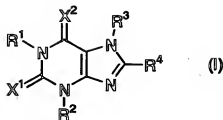
4. The antiepileptic agent according to claim 3, wherein
Y¹ and Y² are hydrogen atoms.

5. The antiepileptic agent according to claim 3 or 4,
10 wherein Z is substituted or unsubstituted aryl or the formula
(III):



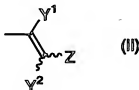
(wherein R⁶ represents a hydrogen atom, hydroxy, lower alkyl,
lower alkoxy, halogen, nitro or amino; and m represents an
15 integer of 1 to 3).

6. A method for treating epilepsy, which comprises
administering an effective amount of a xanthine derivative
represented by the formula (I):



[wherein R¹, R² and R³ are the same or different and each represents a hydrogen atom, lower alkyl, lower alkenyl or lower alkynyl;

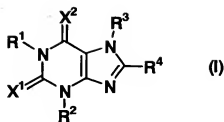
- 5 R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (wherein R⁵ is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclic group and n represents an integer of 0 to 4) or the formula (II):



- 10 (wherein Y¹ and Y² are the same or different and each represents a hydrogen atom, halogen or lower alkyl and Z represents substituted or unsubstituted aryl or substituted or unsubstituted heterocyclic group); and

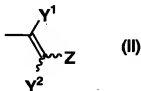
 X¹ and X² are the same or different and each represents
 15 an oxygen atom or a sulfur atom] or a pharmaceutically acceptable salt thereof.

7. Use of a xanthine derivative represented by the formula (I):



[wherein R¹, R² and R³ are the same or different and each represents a hydrogen atom, lower alkyl, lower alkenyl or lower alkynyl;

- 5 R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (wherein R⁵ represents substituted or unsubstituted aryl or substituted or unsubstituted heterocyclic group and n represents an integer of 0 to 4) or the formula (II):



- 10 (wherein Y¹ and Y² are the same or different and each represents hydrogen atom, halogen or lower alkyl and Z represents substituted or unsubstituted aryl or substituted or unsubstituted heterocyclic group); and

- 15 X¹ and X² are the same or different and each represents an oxygen atom or a sulfur atom] or a pharmaceutically acceptable salt thereof, for the manufacture of an antiepileptic agent.